#### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	_								
To;	PCT								
Page White & Farrer 54 Doughty Street London WC1N 2LS	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY								
Storbritannien	(PCT Rule 43bis.1)								
	Date of mailing (day/month/year) 1 0 -06- 2005								
Applicant's or agent's file reference 304853WO/PRS	FOR FURTHER ACTION See paragraph 2 below								
	date (day/month/year) Priority date (day/month/year)  24-12-2003								
International Patent Classification (IPC) or both national classification (IPC) and both national classification (IPC) are both national classification (IPC) and both national classification (IPC) are both national class									
Applicant Nokia Corporation et al									
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International application No.

PCT/IB 2004/004388

Box No. I	Basis of this opinion
1. With r	egard to the language, this opinion has been established on the basis of the international application in the language in it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language,  which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
claime	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the di invention, this opinion has been established on the basis of:
a. typ	e of material  a sequence listing
	table(s) related to the sequence listing
[	Lable(s) related to the sequence fishing
b. for	nat of material
	in written format
L	in computer readable form
c. tin	ne of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addit	ional comments:

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Box No. II	II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
	on whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be y applicable have not been examined in respect of:								
	the entire international application								
$\boxtimes$	claims Nos. 24-30								
because	the said international application, or the said claims Nos.  relate to the following subject matter which does not require an international preliminary examination (specify):								
the description, claims or drawings (indicate particular elements below) or said claims Nos.  are so unclear that no meaningful opinion could be formed (specify):									
	The claims, or said claims Nos are so inadequately supported								
	by the description that no meaningful opinion could be formed.  no international search report has been established for said claims Nos. 24-30								
	no international search report has been established for said claims Nos. 24-30  the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:								
	the written form has not been furnished								
	does not comply with the standard								
	the computer readable form has not been furnished does not comply with the standard								
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.								
	See Supplemental Box for further details.								

10/583986 AP3 Rec'd PSTIFFO 32 JUN 2020

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

March OD	C) · · ·	9-11, 13-14, 16-17, 20-23	YES
Novelty (N)	Claims		
	Claims	1-8, 12, 15, 18-19, 31-36	NO
Inventive step (IS)	Claims		YES
	Claims	1-23, 31-36	NO
Industrial applicability (IA)	Claims	1-23, 31-36	YES
	Claims		NO

2. Citations and explanations:

Reference is made to the following documents:

D1: US 4254333 A D2: DE 3306941 A1

D1 relates to an optoelectronic circuit element, e.g. a switching device, comprising at least one radiation-emitting element (LED) 1, a radiation-propagating unit 5 and at least one radiation-sensitive element (PT) 3. The LED and PT are arranged such as that the radiation from the LED is received by the PT after propagating with total internal reflection in the radiation-propagating unit. If the propagating unit is contacted by an actuating body, e.g. a finger, between the LED and PT, some of the radiation is refracted out of the propagating unit. This loss in radiation is registered in the PT as an actuation of the switch.

D2 also refers to an optoelectronic device like that in D1. In figure 2 is shown that a plurality of devices can be arranged in a grid so the position of a contact can be indicated.

The light signal arrangement used as an analogue navigation device in claim 1 is known from both D1 and D2. The use of the light signal arrangement as an analogue navigation device can be derived from D1, column 9, line 28 to line 41 and from figure 2 in D2. In D1, column 9, line 15 to line 19 is stated that a soft rubber body can be used as an actuator

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#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

in stead of a finger.

Thus, the invention according to claims 1-8, 12, 15, 18-19 and 31-36 is known from D1 and/or D2.

Claims 9-11, 13-14, 16-17 and 20-22 are only showing details which are considered obvious for a person skilled in the art.

Therefore, the invention according to claims 9-11, 13-14, 16-17 and 20-22 is considered to lack inventive step.

Claim 23 should probably refer to "An analogue navigation device..." in stead of "A handheld electronic device...". If so, it is known from D1, if not, see comment on claims 25-29.

A claim that only refers to a reference to figures as in claims 24 and 30 is not allowed.

An independent claim shall fully describe the invention. Claim 25 is not written in such a manner that it can be allowed. Therefore, claims 25-29 is not searched.

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Box No. VII	Cer	tain defe	cts in th	e intern	ational a	pplication	)						
The following	g defec	ts in the	form or o	content c	f the inte	ernational	applica	tion have	been no	ted:		-	
Claim devic	23 e"	sho in s	uld stead	proba	ably "A ha	refe endhel	r tod	o "An lectr	ana onic	logu devi	e nav	vigat	ion

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawing or on the question whether the claim are fully supported by the description, are made:

Claims 24 and 30 are not allowed because they only refer to a reference to the figures.

Claims 25-29 is not searched because an independent claim shall fully describe the invention. Claim 25 is not written in such a manner and cannot be allowed.